AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-8 (canceled).

Claim 9 (new): A manufacturing method for manufacturing an acceleration sensor, comprising the steps of:

preparing 4n planar green sheets made of piezoelectric ceramic, where n is an integer greater than or equal to 1;

applying a conductive paste on a surface of at least one of the green sheets at positions corresponding to a center portion and two end portions of individual piezoelectric elements in the longitudinal direction, so as to form a plurality of segmented electrodes for a plurality of piezoelectric elements;

applying a conductive paste on a surface of at least one of the other green sheets such that the conductive paste is led to a position corresponding to one end of each of the plurality of piezoelectric elements in the longitudinal direction, whereby first lead electrodes are formed for the plurality of piezoelectric elements;

applying a conductive paste on a surface of at least one of the other green sheets such that the conductive paste is led to a position corresponding to the other end, opposite to the one end, of each of the plurality of piezoelectric elements in the longitudinal direction, whereby second lead electrodes are formed for the plurality of piezoelectric elements;

stacking the green sheets such that the segmented electrodes and the first lead electrodes or the second lead electrodes are alternately arranged in such a manner that one of the segmented electrodes is positioned between a pair of the first lead electrodes

and the second lead electrode and such that the electrode disposed in the middle in the thickness direction is one of the segmented electrodes, and stacking a green sheet without conductive paste as the topmost layer so as to obtain a stacked body;

firing the stacked body to produce a piezoelectric ceramic fired compact which includes a plurality of piezoelectric layers and simultaneously baking the conductive paste;

forming polarization electrodes on front and back faces of the piezoelectric ceramic fired compact, the polarization electrodes being segmented into portions according to the positions corresponding to a center portion and both end portions of each piezoelectric element in the longitudinal direction;

applying DC electric fields between the polarization electrodes and the first and second lead electrodes, and between the segmented electrodes and the first and second lead electrodes to polarize the piezoelectric ceramic fired compact in the thickness direction such that the piezoelectric layers provided on both sides of the lead electrodes are polarized in opposite directions and such that the center portion and both end portions of the same piezoelectric layer are polarized in opposite directions;

interconnecting the polarization electrodes or removing the polarization electrodes and forming continuous electrodes, whereby main electrodes leading to ends of the piezoelectric elements which are different in the longitudinal direction are formed on the front and back faces of the piezoelectric element;

cutting the piezoelectric ceramic fired compact into individual piezoelectric elements; and

forming external electrodes on both end faces of the cut piezoelectric element and connecting the external electrodes to the lead electrodes formed inside the piezoelectric element and the main electrodes formed on the front and back faces of the piezoelectric element.